

Tool Kit® Multimeters



2708



2707A

Excellent meters for most jobs that require flexibility, accuracy and speed. Value packed features make these meters a must in every "Tool Kit®".

Common Features:

- **2000 count**
- **0.5% DCV accuracy**
- **DC voltage to 1000V**
- **AC voltage to 750V**
- **DC current to 10A**
- **Continuity**
- **Diode test**
- **Drop resistant case**

Features

	2708	2707A	2706A	2704B	models 2703B
Basic Functions					
Ranging	Auto	Manual	Manual	Manual	Manual
Current	10A AC/DC	10A AC/DC	10A AC/DC	10A AC/DC	10A DC
Component Tests					
Resistance	0.1Ω to 43MΩ	0.1Ω to 200MΩ	0.1Ω to 20MΩ	0.1Ω to 20MΩ	0.1Ω to 20MΩ
Capacitance		to 20μF	to 20μF	to 20μF	
Transistor Test		✓	✓	✓	
Frequency Counter		✓	✓	✓	
Temperature Probe			✓		
Logic Probe	✓	✓			
Backlight	✓				

Specifications

Specifications					models
	2708	2707A	2706A	2704B	2703B
DC Volts					
Ranges	430mV, 4.3V, 43V, 1000V	200mV, 2V, 20V, 200V, 1000V			
Resolution	100μV, 1mV, 10mV, 100mV, 1V				
Accuracy	±(0.5% + 1 Digit)				
Overload Protection	200mV Range 500V DC + AC Peak, 350V RMS Sine: All Other Ranges: 1200V DC + AC Peak, 800V RMS, Sine				
Input Impedance	10MΩ				
AC Volts					
Ranges	430mV, 4.3V, 43V, 430V, 750V	200mV, 2V, 20V, 200V, 750V			200V, 750V,
Resolution	100μV, 1mV, 10mV, 100mV, 1V	100μV, 1mV, 10mV, 100mV, 1V			100mV, 1V
Basic Accuracy	±(1.5% + 4 Digits)				
Frequency Response	50 to 100 Hz	50 to 500 Hz			
Overload Protection	200mV Range: 500V DC + AC Peak, 350V RMS, Sine: All Other Ranges: 1200V DC + AC Peak, 800V RMS, Sine:				500VDC + AC Peak, 750VRMS, Sine
Input Impedance	10MΩ				4.5MΩ
DC Current					
Ranges	430μA, 43mA, 430mA, 10A	200μA, 2mA, 20mA, 200mA, 2A, 10A (2A: 2706A only)		200mA, 20mA, 200mA, 10A	
Resolution	0.1μA, 10μA, 100μA, 10mA	0.1μA, 1μA, 10μA, 100μA, 1mA, 10mA (1mA: 2706A only)		0.1μA, 1μA, 100μA, 10mA	
Accuracy	±(0.5% + 1 Digit)		±(1% + 1 Digit): 10A Range: ±(2% + 3 Digits)		
Burden Voltage	10A and 200mA range: 750mV max.; All Other Ranges: 325mV max.				
Overload Protection	10A Range: Unfused; All Other Ranges: 250V Fuse				
AC Current					
Ranges	430μA, 43mA, 430mA, 10A	200μA, 2mA, 20mA, 200mA, 2A, 10A (2A: 2706A only)			Does not apply
Resolution	0.1μA, 10μA, 100μA, 10mA	0.1μA, 1μA, 10μA, 100μA, 1mA, 10mA (1mA: 2706A only)			
Accuracy	±(1.2% + 4 Digits): 10A Range: ±(2% + 4 Digits)				
Frequency Response	50 to 500 Hz				
Burden Voltage	10A and 200mA Range: 750mV max.; All Other Ranges: 325mV max.				
Overload Protection	10A Range: Unfused; All Other Ranges: 250 V Fuse				
Resistance					
Ranges	430Ω, 4.3kΩ, 43kΩ, 4.3MΩ, 43MΩ	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ, 200MΩ (200MΩ: 2707A only)			
Resolution	0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ	0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ, 100kΩ (100kΩ: 2707A only)			
Basic Accuracy	430Ω Range: ±(0.3% + 3 Digit) 200MΩ Range (2707A only): ±(5% + 10 Dgt.); ±(0.8% + 1 Digit)				
	4.3k - 4.3MΩ Range: ±(0.3% + 2dgt)	20MΩ Range: ±(3% + 1 Digit)	43MΩ Range: ±(1.5% + 4 Digit)		200Ω Range: ±(1% + 3 D)
Overload Protection	500V DC + AC Peak				



Tool Kit® Multimeters

2703B

2704B

2706A

Specifications (continued)

	2708	2707A	2706A	2704B	models 2703B
Diode Test	Tested at 1.6mA and 3.2V Max.				
Transistor Test (hFE)	Does not apply	Base Current: 10μA Vce: 2.8V; Gain Indication: 0 to 1,000			Does not apply
Capacitance					
Ranges	Does not apply	2,000pF 20nF 200nF 2μF 20μF			Does not apply
Resolution		1pF 10pF 100pF 1nF 10nF			
Accuracy		±(3% + 10 Digits)			
Test Frequency, Voltage		400Hz, 50mV			
Frequency					
Ranges	Does not apply	2kHz, 20kHz, 200kHz, 2MHz, 15MHz			Does not apply
Resolution		1Hz, 10Hz, 100Hz, 1kHz, 10kHz			
Accuracy		±(0.1% + 2 Digit)			
Sensitivity		1Vrms			
Overload Protection		500V DC + AC Peak			
Logic Probe (TTL)					
Logic Threshold	1 = 2.8 ± 0.8V, 0 = 0.8 ± 0.5V		Does not apply	Does not apply	Does not apply
Minimum Pulse Width	25nS				
Input Impedance	120kΩ nom.				
Overload Protection	500V DC + AC Peak				
Temperature					
Range	Does not apply	Does not apply	-4° to + 1400°F (-20° to + 750°C)	Does not apply	Does not apply
Accuracy					
-4° to + 900°F (-20° to 500°C)			±(2% + 4°F) ±(2% + 2°C)		
900° to + 1400°F (500° to + 750°C)			±(3% + 4°F) ±(3% + 2°C)		
Continuity Tone	Tone Sounds within 100mS for Resistance Under 100V				
General					
Display	3 1/2 digit, high-contrast 0.7" LCD, 1999 counts				
Sampling	3 times/sec. (nominal)				
Operating Temp:	32° to 104°F (0° to + 40°C), 0 to 70% RH				
Storage Temp	-4° to 140°F (-20° to + 60°C), 0 to 80% RH				
Power Requirements	9 Volt NEDA 1604.				
Battery Life	200 hours (alkaline) nominal 275 hours (alkaline) Nominal (2703B only)				
Dimensions (HxWxD)	5.9 x 3.1 x 1.3" (150 x 79 x 33 mm)				
Weight	9 oz. (250g) with battery				

Accessories

One Year Warranty

SUPPLIED: Battery, Test Leads, Instruction Manual. Thermocouple Probe (2706A only)
 OPTIONAL: TL-2A Deluxe Test Leads, TL-3 Accessory Tip Kit (for TL-2A), PR-28A High Voltage DMM Probe (40kVDC),
 TL-130A General Purpose DMM Kit
 Carrying Case (not included): LC-29B

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